

Claims

- [c1] 1. A sprocket assembly including at least three sprockets having different tooth counts, the sprocket assembly comprising:
a sprocket carrier including a hub ring having an internal profile for transmitting torque, a plurality of carrier arms radially extending from the hub ring, the carrier arms having a first receiving surface and a second receiving surface opposite the first receiving surface;
first and second sprockets mounted to the first and second receiving surfaces, respectively; and
a third sprocket arranged between the first and second sprockets.
- [c2] 2. The sprocket assembly of claim 1, wherein the first sprocket includes a first plurality of mounting holes, the second sprocket including a second plurality of mounting holes, the carrier arms including a third plurality of mounting holes that align with the first and second plurality of mounting holes of the first and second sprockets, the first and second sprockets mounted to the carrier arms by a common fastening element.
- [c3] 3. The sprocket assembly of claim 2, wherein the first

sprocket includes a first plurality of radially inwardly extending mounting tabs including the first plurality of mounting holes, the second sprocket including a second plurality of radially inwardly extending mounting tabs including the second plurality of mounting holes.

- [c4] 4. The sprocket assembly of claim 2, wherein the fastening element is one of a screw and a rivet.
- [c5] 5. The sprocket assembly of claim 2, wherein the first and second sprockets include first and second plurality of mounting holes, respectively, for mounting to the carrier arms and one of the first and second sprockets including a fourth plurality of mounting holes for mounting of the third sprocket to one of the first and second sprockets.
- [c6] 6. The sprocket assembly of claim 2, wherein the third sprocket is mounted to the carrier arms with a spacer disposed therebetween using the same fastening elements to mount the first and second sprockets to the carrier arms.
- [c7] 7. The sprocket assembly of claim 3, wherein additional sprockets are mounted to the mounting tabs of the first and second sprockets with fastening elements and spacers disposed therebetween.

- [c8] 8. The sprocket assembly of claim 2, wherein the third sprocket includes a fifth plurality of mounting holes for mounting to the carrier arms.
- [c9] 9. The sprocket assembly of claim 8, wherein the third sprocket includes a third plurality of radially inwardly extending mounting tabs including the fifth plurality of mounting holes for mounting to the carrier arms, the third sprocket supported in the chain tension direction by the mounting tabs attached to the carrier arms.
- [c10] 10. The sprocket assembly of claim 1, wherein the carrier arms include at least one groove for receiving the third sprocket, the groove extending circumferentially along an end of the carrier arms, the groove located between the first and second receiving surfaces, the first, second and third sprockets mounted to the carrier arms with a common fastening element.
- [c11] 11. The sprocket assembly of claim 10, wherein the fastening element is one of a screw and a rivet.
- [c12] 12. The sprocket assembly of claim 1, wherein the third sprocket has a lower tooth count than the first sprocket and a higher tooth count than the second sprocket.
- [c13] 13. The sprocket assembly of claim 1, wherein the car-

rier arms have a root region and an end region, the arms including axially extending cutouts in the root region.

[c14] 14. The sprocket assembly of claim 13, wherein a width of the carrier arms is narrower in the root region than the end region, a thickness of the carrier arms being substantially equal to the sprocket spacings plus a thickness of the third sprocket.

[c15] 15. The sprocket assembly of claim 1, wherein the carrier arms have a root region and an end region, a width of the carrier arms is narrower in the root region than in the end region, a thickness of the carrier arms substantially equal to the sprocket spacings plus a thickness of the third sprocket.

[c16] 16. A sprocket assembly including at least three sprockets having different tooth counts, the sprocket assembly including:

a sprocket carrier including a hub ring having an internal profile for torque transmission and a plurality of carrier arms extending from the hub ring, the carrier arms having a first receiving surface and a second receiving surface opposite the first receiving surface;

at least one installation element mounted to at least one of the first and second receiving surfaces; and

at least one sprocket mounted to at least one side of the

installation element.

- [c17] 17. The sprocket assembly of claim 16, wherein the installation element is an annular disk.
- [c18] 18. The sprocket assembly of claim 16, wherein the sprockets are directly mounted to the installation element.
- [c19] 19. The sprocket assembly of claim 16, further comprising spacers for mounting the sprockets to the installation element.
- [c20] 20. The sprocket assembly of claim 16, wherein a first installation element is mounted to the first receiving surface and a second installation element is mounted to the second receiving surface, and a common fastening element mounts first and second installation elements to the first and second receiving surfaces, respectively.
- [c21] 21. The sprocket assembly of claim 16, wherein the installation element is mounted to the first receiving surface; one of the sprockets is mounted to the second receiving surface; and a common fastening element mounts the installation element and the sprocket to the carrier arms.
- [c22] 22. The sprocket assembly of claim 16, wherein two

sprockets having different tooth counts are mounted one on each side of the installation element, the two sprockets being mounted to the installation element by a common fastening element per attachment point.

[c23] 23. The sprocket assembly of claim 16, wherein the installation element has a sprocket contour.

[c24] 24. The sprocket assembly of claim 16, wherein the installation element is a sprocket.

[c25] 25. The sprocket assembly of claim 16, wherein the carrier arms include at least one groove for receiving a sprocket, the groove extending circumferentially along an end of the carrier arms, the groove disposed between the first and second receiving surfaces, the sprocket and the installation element being mounted to the carrier arms by a common fastening element.